

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
21 July 2005 (21.07.2005)

PCT

(10) International Publication Number
WO 2005/065533 A1

(51) International Patent Classification⁷: **A61B 5/00**, 5/103

(21) International Application Number:

PCT/GB2005/000051

(22) International Filing Date: 10 January 2005 (10.01.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0400281.2 8 January 2004 (08.01.2004) GB

(71) Applicant (for all designated States except US): **DIALOG DEVICES LIMITED** [GB/GB]; Rutland Hall, Epinal Way, Loughborough, Leicestershire LE11 3TU (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **CRABTREE, Vincent, Peter** [GB/GB]; 7 Rudyard Close, Loughborough, Leicestershire LE11 3TU (GB). **SMITH, Peter, Richard** [GB/GB]; 4 Batsons Court, Top Road, Griffydam, Leicestershire LE67 8HX (GB).

(74) Agents: **HIGGIN, Paul** et al.; Swindell & Pearson, 48 Friar Gate, Derby DE1 1GY (GB).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

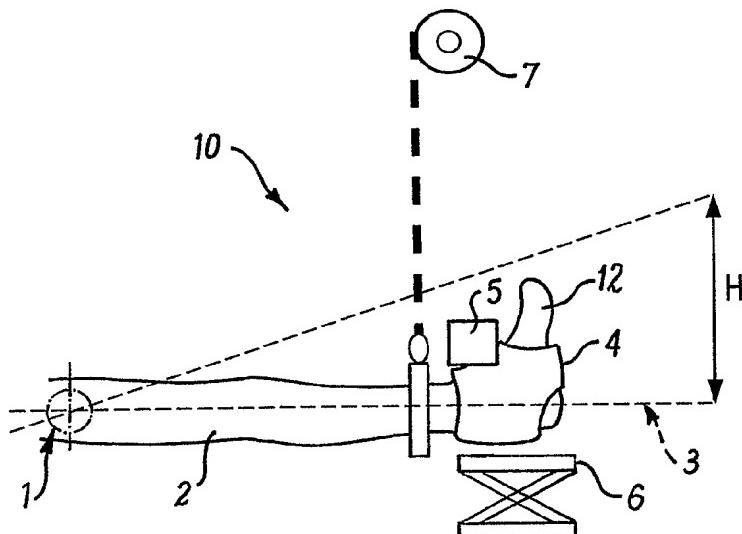
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

[Continued on next page]

(54) Title: A SYSTEM OR METHOD FOR ASSESSING A SUBJECT'S PERIPHERAL BLOOD CIRCULATION



WO 2005/065533 A1

(57) Abstract: A system for assessing blood circulation in a subject's limb, comprising: detection means for detecting a signal dependent upon the arterial blood volume in a limb of the subject when the subject is in a first posture and also when the subject is in a second posture, different to the first posture; and processing means for calculating a quantitative indicator that is dependent upon the ratio of the signal for the first posture to the signal for the second posture.



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.